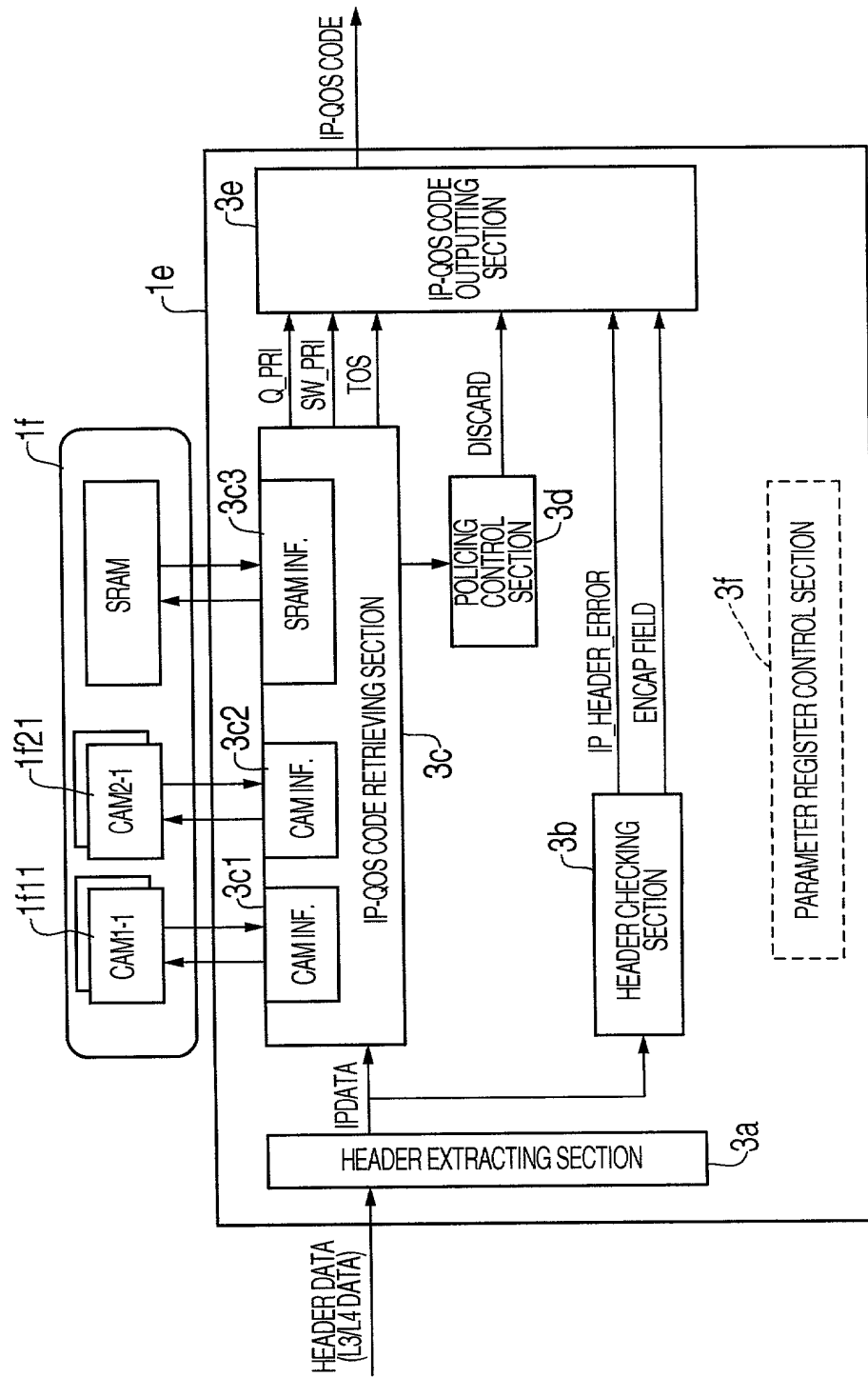


Fig. 3



38 BITS		39 BITS	
SEARCH PORT CODE	SRC IP PREFIX	SEARCH PORT CODE	DST IP PREFIX
	0000 133.206.48/24		0001 133.206.48/24
	0000 133.206.48.13/32		0001 133.201/16
	0000 133.205/16		0001 132.1/16
	0000		0001 133.206.40.13/32

SEARCH ADDR ADDR				PORT		MASK PATTERN=SERVICE TYPE FOR EVERY CONTRACTED USER	
PORT CODE	A	B	TOS	PTCL	KEY	STAMP	
0010	00	03	01	UDP			MASK PATTERN (1)
0010	02	04	04	OTHER	-		
0010	05	01	02	TCP	00		MASK PATTERN (2)
0010	01	02	00	UDP	00		
0010	01	02	01	TCP	HTTP		MASK PATTERN (3)
0010	02	01	02		FTP		

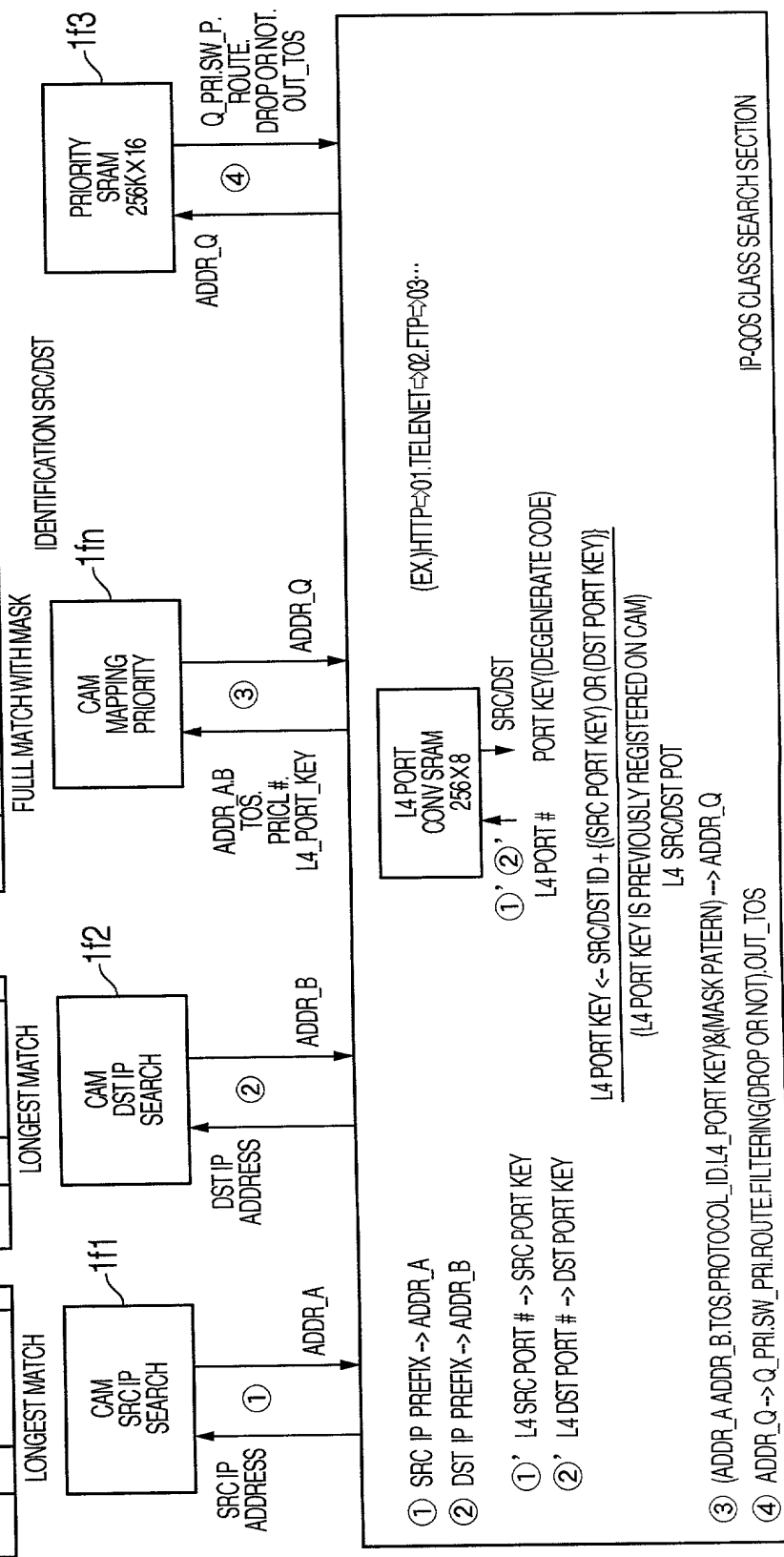


Fig. 5

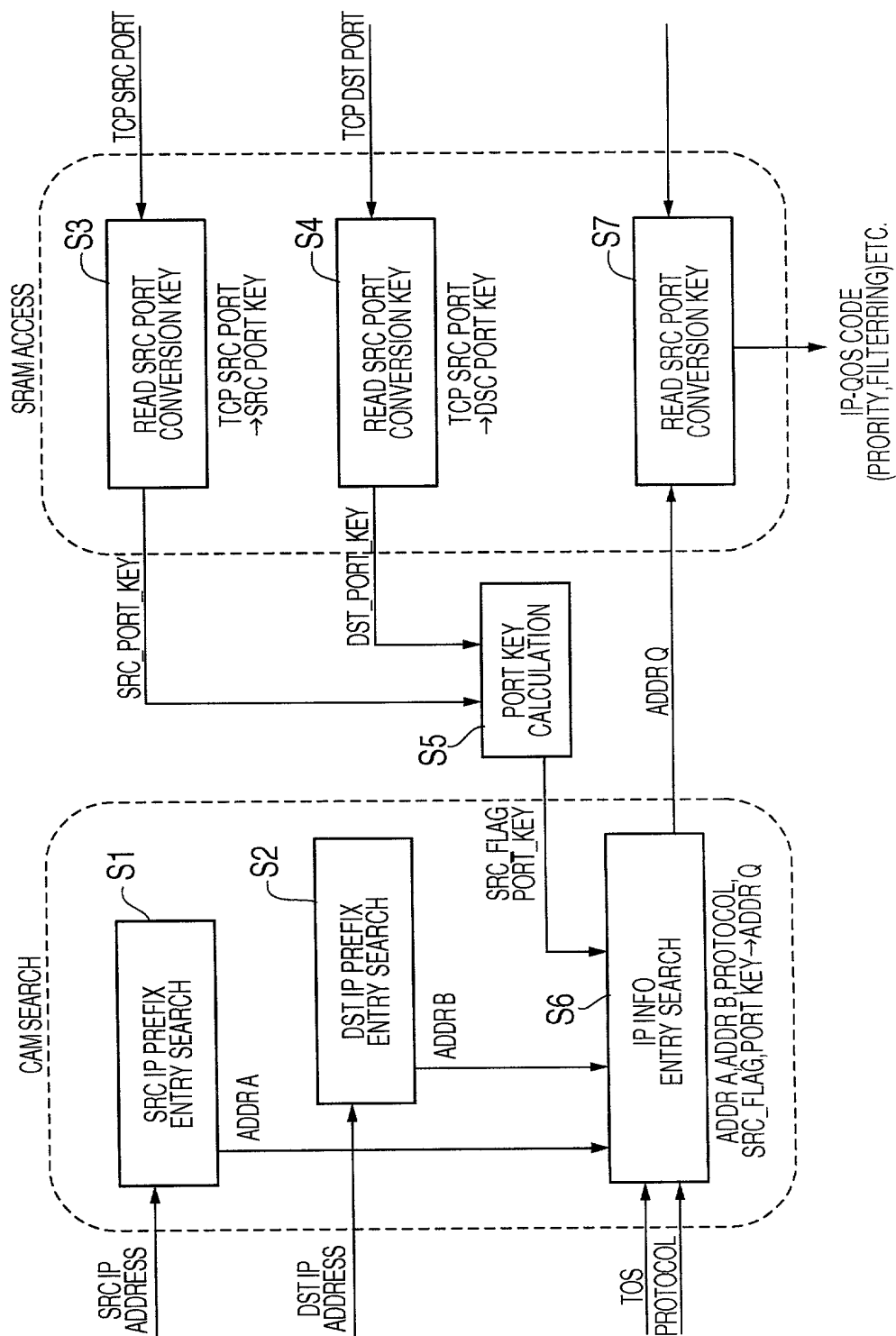


Fig. 6 A

【CAM REGION DIVISION】

CAM ADDRESS	CAM DATA (MAX.64 BITS)	MASK PATTERN (64 BITS)	SEARCH METHOD
ADDR_A~	IP SRC PREFIX ENTRY STORAGE REGION		LONGEST MATCH
ADDR_B~	IP DST PREFIX ENTRY STORAGE REGION		LONGEST MATCH
ADDR_Q~	IP INFO SEARCH ENTRY STORAGE REGION		FULL MATCH WITH MASK

Fig. 6 B

【1,IP SRC PREFIX ENTRY STORAGE REGION : SEARCH CODE 0000】

CAM ADDRESS (ADDR_A)	CAM DATA (38 BITS)			
	HW # (2)	SEARCH CODE (4)	IP SRC ADDRESS/ PREFIX (32BITS)	NON USED (26 BITS)
A #1	00	0000	IP SRC ADDRESS #1/PREFIX	
A #2	00	0000	IP SRC ADDRESS #2/PREFIX	
A #3	01	0000	IP SRC ADDRESS #1/PREFIX	
⋮	⋮	⋮	⋮	

[illegible]

Fig. 8

【IP INFO ENTRY】	ADDRESS(16 BITS) : UPPER 2 BITS=00 LOWER 14 BITS=HIT ADDR_Q	DATA(24 BIT)						
		Q_PRI(4)	D	P	ROUTE(1+4)	OUTPUT TOS(2+8)	RESERVE (3)	
ADDR Q0		0000	0	0	0000	11 011011 00		
ADDR Q1		1101	0	1	0 0000	11 011010 00		
ADDR Q2		1101	0	0	0 0000	00 000000 00		
⋮		⋮	⋮	⋮	⋮	⋮		
ADDR QI		1110	0	1	1 0101	00 000000 00		
⋮		⋮	⋮	⋮	⋮	⋮		

Fig. 9

(IPV4 & TCP/UDP/OTHER HEADER FORMAT)

WORD	63	47	31	15
-	PPP HEADER			
0	EMPTY DATA	IDENTIFICATION	M	FRAGMENT OFFSET
1	DETAGRAM LENGTH	SRC IP ADDRESS		
2	HEADER CHECKSUM	L4 SRC PORT	L4 DST PORT	

8k

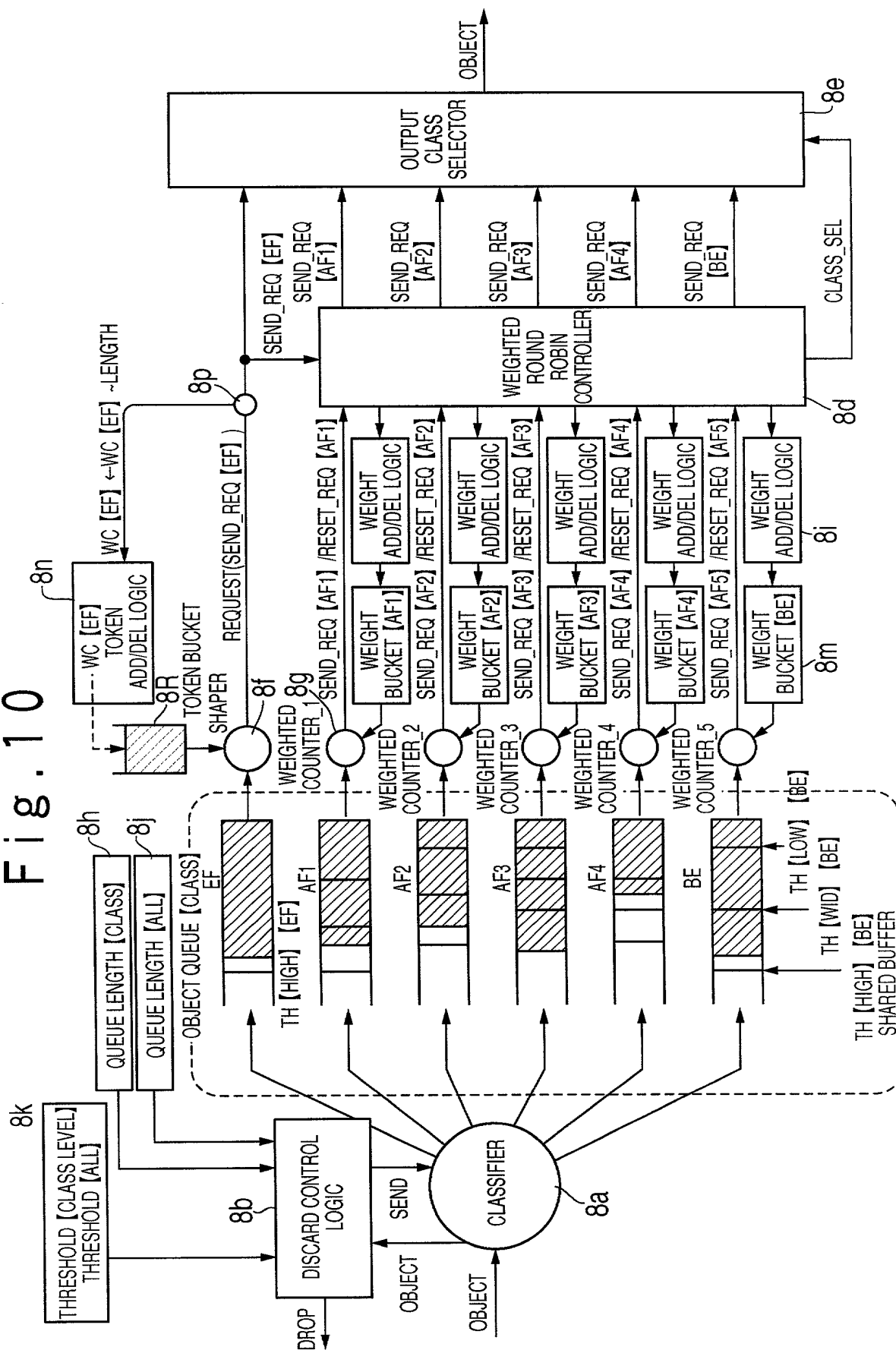


Fig. 11

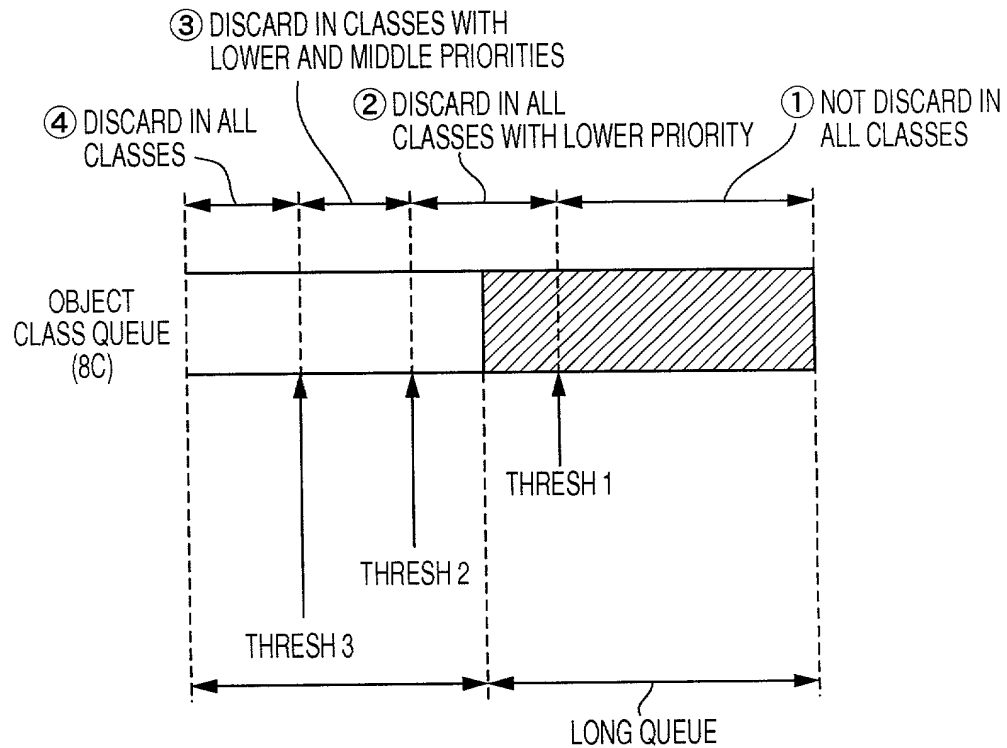


Fig. 12

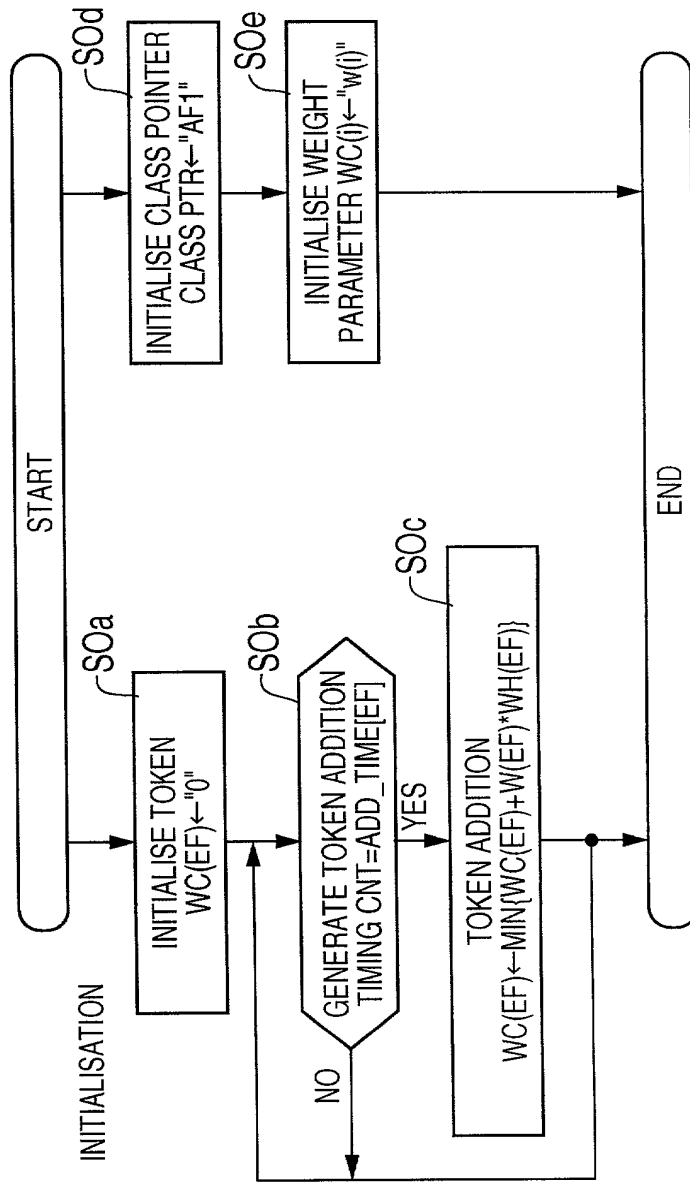
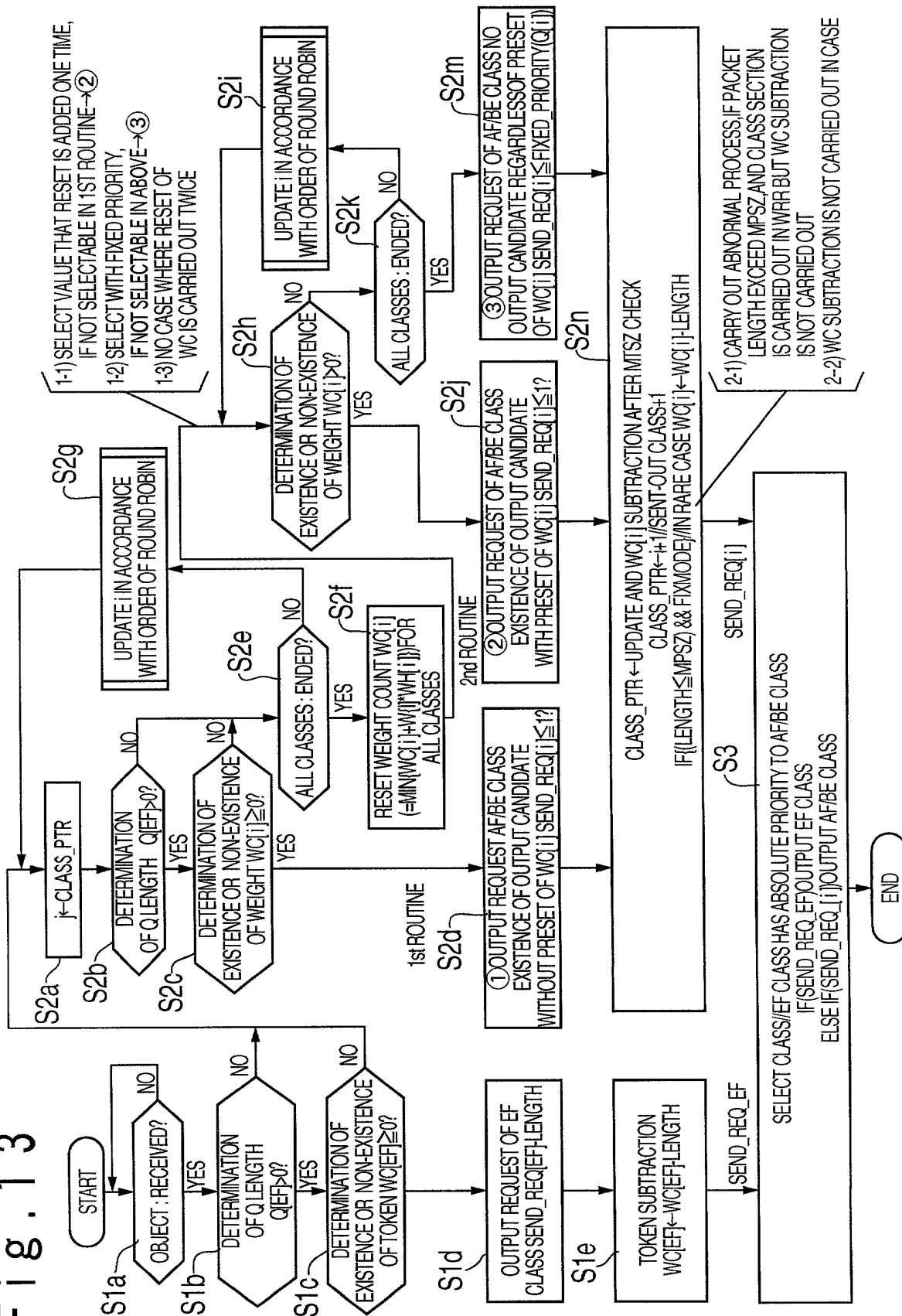


Fig. 13



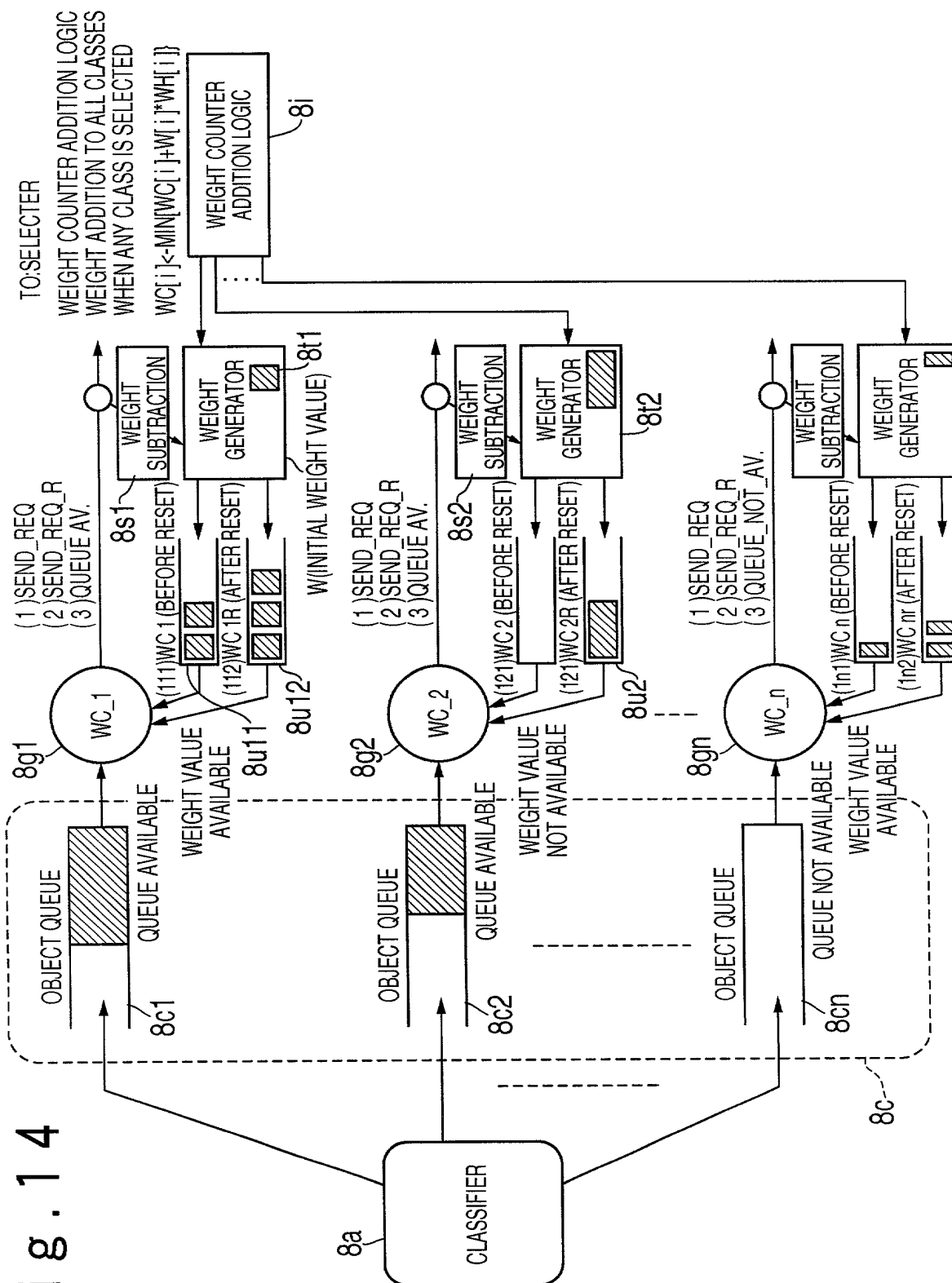
[illegible]

Fig. 15

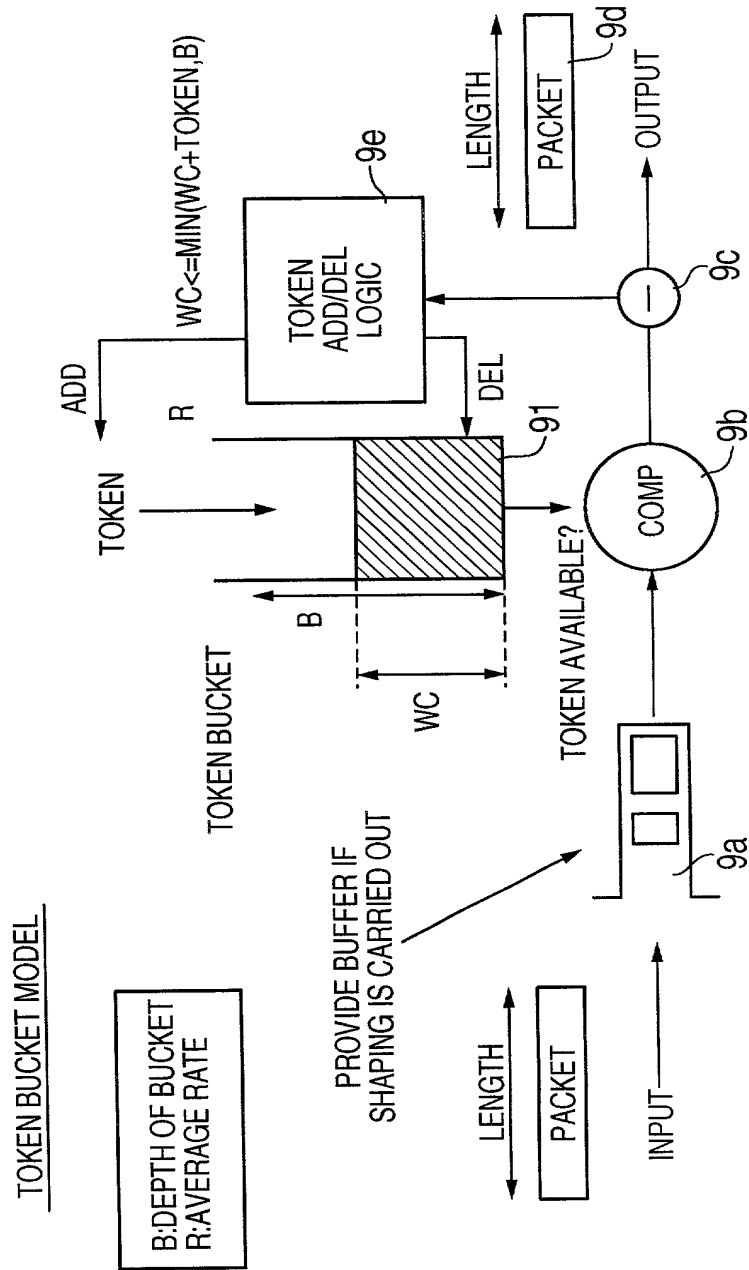
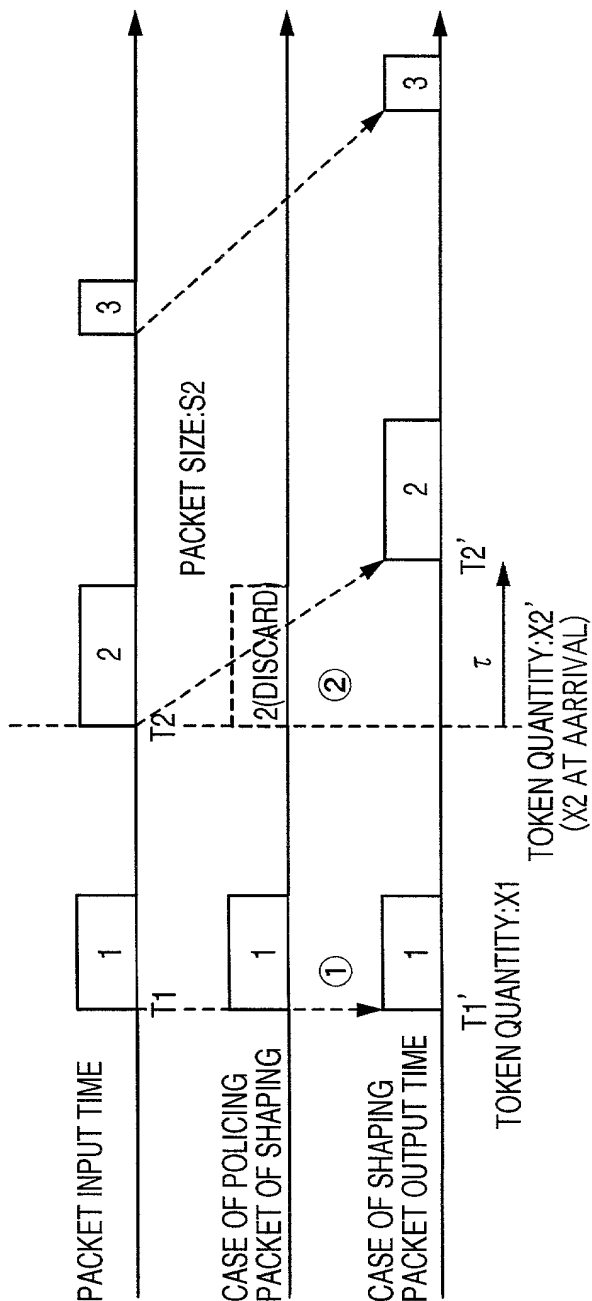


Fig. 16



1) TOKEN QUANTITY AT TIME T_2 : $X_2 = x_1 + (T_2 - T_1) \cdot R$

LACK OF TOKEN, IF $S_2 > X_2$

2) POLICING

IMMEDIATELY DISCARD

3) SHAPING

NOT LACK OF TOKEN, IF PACKET IS TRANSMITTED AT TIME

$(\tau + T_2) / (S_2 = X_1 + ((\tau + T_2) - T_1) \cdot R)$, PACKET IS TRANSMITTED WITH DELAY τ